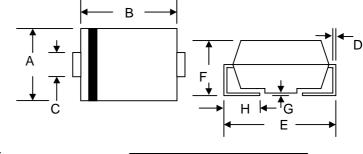




2.0A SURFACE MOUNT GLASS PASSIVATED ULTRAFAST DIODE

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 50A Peak
- Low Power Loss
- Ultra-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

SMB/DO-214AA					
Dim	Min	Min Max			
Α	3.30	3.94			
В	4.06 4.70				
С	1.91	2.11			
D	0.152	0.305			
Е	5.08	5.59			
F	2.13	2.44			
G	0.051	0.203			
н	0.76	1.27			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	UF2A	UF2B	UF2D	UF2G	UF2J	UF2K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	V
Average Rectified Output Current @TL	= 90°C	lo	lo 2.0					А	
Non-Repetitive Peak Forward Surge Curren 8.3ms Single half sine-wave superimposed rated load (JEDEC Method)		IFSM	50				A		
Forward Voltage @I _F	= 2.0A	Vfm	1.0 1.4		1	1.7			
	= 25°C = 100°C	I RM	10 500					μA	
Reverse Recovery Time (Note 1)		trr	50 100			00	nS		
Typical Junction Capacitance (Note 2)		Cj	50					pF	
Typical Thermal Resistance (Note 3)		R∉JL	20					°C/W	
Operating and Storage Temperature Range		Tj, TSTG	-50 to +150				°C		

Note: 1. Measured with I_{F} = 0.5A, I_{R} = 1.0A, I_{rr} = 0.25A. See figure 5.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with 8.0mm² land area.

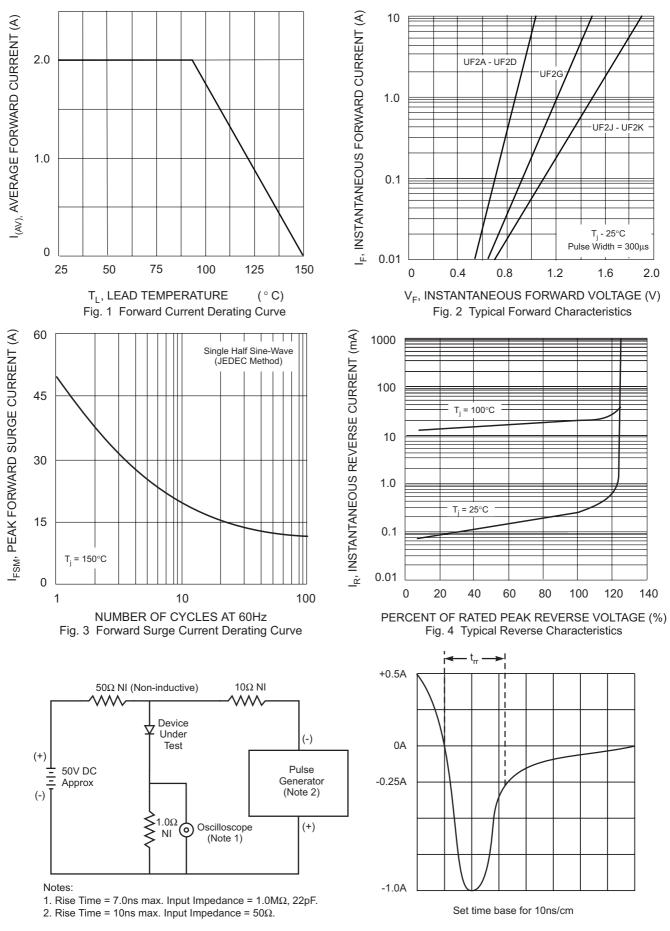
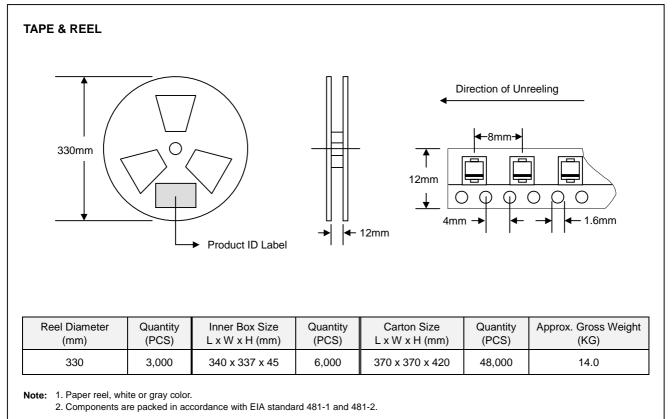


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION **RECOMMENDED FOOTPRINT** 0.050 MIN F (1.27 MIN) 0.082 MIN (2.10 MIN) ₽ Cathode = Polarity Band ◆ 0.106 MAX (2.65 MAX) WTE = Manufacturer's Logo UF2x = Device Number inches(mm) = A, B, D, G, J or K х

PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
UF2A-T3	SMB	3000/Tape & Reel
UF2B-T3	SMB	3000/Tape & Reel
UF2D-T3	SMB	3000/Tape & Reel
UF2G-T3	SMB	3000/Tape & Reel
UF2J-T3	SMB	3000/Tape & Reel
UF2K-T3	SMB	3000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, UF2A-T3-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.